

SABRE-North Experiment for Dark Matter detection

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The SABRE experiment aims to detect dark matter by improving upon DAMA/LIBRA's annual modulation signal using ultra-pure NaI(Tl) crystals to reduce the background noise from contamination such as ^{40}K , ^{238}U , ^{232}Th through advanced zone-refining techniques and high-purity crystal production. With detectors in both hemispheres, SABRE can distinguish dark matter signals from seasonal effects, enhancing its sensitivity to WIMPs.

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Session Classification: Poster Session